

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
December
2012

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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The organization shown above represents staff and positions relevant to this report as of month of publication on February, 2014. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

Table of Contents

	Page
Organization Page.....	ii
Table of Contents	iii
Monthly Highlights	1
 Oroville Field Division Water Operations	
Table	Page
1 Antelope Lake, Daily Operation.....	2
2 Frenchman Lake, Daily Operation.....	3
3 Lake Davis, Daily Operation.....	4
4 Lake Oroville, Daily Operation.....	5
5 Thermalito Forebay, Including Diversion Pool and Power Canal, Daily Operation.....	6
6 Thermalito Afterbay, Daily Operation	7
7 Oroville-Thermalito Complex, Water Temperature Data	8
 Delta Field Division Water Operations	
8 North Bay Aqueduct, Delta Field Division	9
9 Delta Field Division Plant Data.....	10
10 Clifton Court Forebay, Daily Operation of Gates.....	11
11 Governor Edmund G. Brown California Aqueduct, Delta Field Division, Monthly Deliveries	12
12 South Bay Aqueduct, Delta Field Division, Monthly Deliveries	13
13 Lake Del Valle, Daily Operation	14
 San Luis Field Division Water Operations	
14 Consolidated State-Federal O'Neill Forebay, Daily Operations	15
15 Consolidated State-Federal San Luis Reservoir, Daily Operations	16
16 San Luis Field Division Plant Data	17
17 Consolidated State-Federal Los Banos Reservoir, Daily Operations	18
18 Consolidated State-Federal Little Panoche Reservoir, Daily Operations	19
19 Governor Edmund G. Brown California Aqueduct, San Luis Field Division, Monthly Deliveries.....	20
20 Consolidated State-Federal San Luis Canal, Daily Operations	22
 San Joaquin Field Division Water Operations	
21 San Joaquin Field Division Plant Data	23
22 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries.....	24
23 Governor Edmund G. Brown California Aqueduct, San Joaquin Field Division, Monthly Deliveries (Coastal Branch).....	27

Southern Field Division Water Operations

24	Southern Field Division Plant Data.....	28
25	Pyramid Lake, Daily Operation.....	29
26	Elderberry Forebay, Daily Operation.....	30
27	Castaic Lake, Daily Operation.....	31
28	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (West Branch).....	32
29	Silverwood Lake, Daily Operation	33
30	Lake Perris, Daily Operation	34
31	Governor Edmund G. Brown California Aqueduct, Southern Field Division, Monthly Deliveries (East Branch).....	35

Water Quality Operations

32	Water Quality at Selected SWP Locations	37
33	Water Quality at Selected Delta Stations	38
34	Pesticides, Herbicides, and Other Organic Substances Detected in the SWP.....	39

Energy Operations

35	Oroville and Delta Field Divisions Energy Data	40
36	San Luis Field Division Energy Data	41
37	San Joaquin Field Division Pumping Plant Energy Load Data	42
38	Southern Field Division Energy Data	43

MONTHLY HIGHLIGHTS

The following activities, actions, and conditions that affected State Water Project operations during December 2012:

Statewide precipitation was about 135 percent of average for the 2012 - 2013 water-year through December 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: [“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. December snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for the 2012 - 2013 water-year was 4.8 maf, 155 percent of average. Statewide runoff for the 2012 - 2013 water-year was 150 percent of average.

Statewide reservoir storage was 105 percent of average to date. Total storage in major SWP reservoirs at the end of December was about 3.41 maf compared to 4.09 maf at this time in 2011. On December 31, end-of-month storage at Lake Oroville was about 2.52 maf, as compared to 2.54 maf at this time in 2011. The State share of San Luis Reservoir's end-of-month storage was about 426 taf, as compared with 964 taf at this time in 2011. The combined storage in SWP's southern reservoirs was about 459 taf, compared with about 586 taf at this time in 2011.

SWP water deliveries to date through December were about 3.97 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2011 were 4.90 maf.

Effective December 1, by mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, “Excess” conditions (with suspended accounting) were declared in the Delta. “Excess” conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports. The end-of-month USBR COA balance remained at 58,195 cfs in favor of the USBR, throughout the month.

There were four measurable earthquakes within the vicinity of the SWP during December; however, no facilities were found to meet inspection criteria. On December 10, Santa Ana Pipeline was out of service for scheduled inspection/repair. On December 29, Devil Canyon Afterbay No. 2 valve vault was flooded due to sump pumps plugging with debris.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Nov 30	4996.05	17,412									
1	4996.60	17,855	443	5	0	0	0	2	8	231	
2	4998.14	19,132	1,277	5	0	0	0	2	8	652	
3	4998.54	19,473	341	5	0	0	0	2	8	180	
4	4999.00	19,868	395	5	0	0	0	2	8	207	
5	4999.58	20,374	506	5	0	0	0	2	8	263	
6	4999.88	20,639	265	5	0	0	0	2	8	142	
7	5000.07	20,815	176	5	0	0	0	2	8	97	
8	5000.54	21,233	418	5	0	0	0	2	8	219	
9	5000.65	21,332	99	5	0	0	0	2	8	58	
10	5000.76	21,431	99	5	0	0	0	2	8	58	
11	5000.87	21,530	99	5	0	0	0	2	8	58	
12	5000.94	21,593	63	5	0	0	0	2	8	40	
13	5001.02	21,665	72	5	0	0	0	2	8	44	
14	5001.09	21,729	64	5	0	0	0	2	7	39	
15	5001.16	21,792	63	5	0	0	0	2	7	39	
16	5001.23	21,856	64	5	0	0	0	2	7	39	
17	5001.36	21,975	119	5	0	0	0	2	7	67	
18	5001.42	22,030	55	5	0	0	0	2	7	35	
19	5001.47	22,075	45	5	0	0	0	2	7	30	
20	5001.53	22,130	55	5	0	0	0	1	7	35	
21	5001.60	22,195	65	5	0	0	0	1	7	40	
22	5001.77	22,351	156	5	0	0	0	1	7	86	
23	5001.88	22,453	102	5	0	0	0	1	7	58	
24	5001.92	22,490	37	5	0	0	0	1	7	26	
25	5001.99	22,555	65	5	0	0	0	1	7	40	
26	5002.06	22,620	65	5	0	0	2	1	7	40	
27	5002.08	22,639	19	5	0	0	2	1	7	17	
28	5002.10	22,657	18	5	0	0	3	1	7	16	
29	5002.13	22,685	28	5	0	0	5	1	7	21	
30	5002.14	22,694	9	5	0	0	6	1	7	12	
31	5002.16	22,713	19	5	0	0	7	1	7	17	
Total cfs-days				---	155	0	0	25	50	231	
Total ac-ft				5,301	307	0	0	50	100	457	
										5,758	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Nov 30	5571.26	32,781									
1	5571.32	32,849	68	2	0	0	0	3	5	39	
2	5571.85	33,456	607	2	0	0	0	3	5	311	
3	5571.95	33,572	116	2	0	0	0	3	5	63	
4	5572.02	33,653	81	2	0	0	0	2	4	45	
5	5572.17	33,827	174	2	0	0	0	2	4	92	
6	5572.24	33,908	81	2	0	0	0	2	4	45	
7	5572.29	33,966	58	2	0	0	0	2	4	33	
8	5572.35	34,036	70	2	0	0	0	2	4	39	
9	5572.36	34,048	12	2	0	0	0	2	4	10	
10	5572.40	34,094	46	2	0	0	0	2	4	27	
11	5572.43	34,129	35	2	0	0	0	2	4	22	
12	5572.46	34,164	35	2	0	0	0	2	4	22	
13	5572.46	34,164	0	2	0	0	0	2	4	4	
14	5572.49	34,199	35	2	0	0	0	2	4	22	
15	5572.49	34,199	0	2	0	0	0	2	4	4	
16	5572.51	34,223	24	2	0	0	0	2	4	16	
17	5572.56	34,281	58	2	0	0	0	2	4	33	
18	5572.56	34,281	0	2	0	0	0	2	4	4	
19	5572.55	34,270	-11	2	0	0	0	2	4	-2	
20	5572.54	34,258	-12	2	0	0	0	2	4	-2	
21	5572.59	34,316	58	2	0	0	0	2	4	33	
22	5572.70	34,445	129	2	0	0	0	2	4	69	
23	5572.78	34,540	95	2	0	0	0	2	4	52	
24	5572.77	34,528	-12	2	0	0	0	2	4	-2	
25	5572.82	34,587	59	2	0	0	0	2	4	34	
26	5572.83	34,598	11	2	0	0	0	2	4	10	
27	5572.83	34,598	0	2	0	0	0	2	4	4	
28	5572.84	34,610	12	2	0	0	0	2	4	10	
29	5572.85	34,622	12	2	0	0	0	2	4	10	
30	5572.86	34,634	12	2	0	0	0	2	4	10	
31	5572.87	34,646	12	2	0	0	0	2	4	10	
Total cfs-days				---	62	0	0	65	127	1,067	
Total ac-ft				1,865	123	0	0	128	251	2,116	

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Nov 30	5768.07	58,937									
1	5768.26	59,568	631	10	0	0	0	7	17	335	
2	5768.85	61,551	1,983	10	0	0	0	7	17	1,017	
3	5768.93	61,823	272	10	0	0	0	7	17	154	
4	5769.03	62,164	341	10	0	0	0	7	17	189	
5	5769.22	62,814	650	10	0	0	0	7	17	345	
6	5769.26	62,951	137	10	0	0	0	7	17	86	
7	5769.28	63,020	69	10	0	0	0	6	16	51	
8	5769.31	63,123	103	10	0	0	0	6	16	68	
9	5769.31	63,123	0	10	0	0	0	6	16	16	
10	5769.31	63,123	0	10	0	0	0	6	16	16	
11	5769.33	63,192	69	10	0	0	0	6	16	51	
12	5769.34	63,227	35	10	0	0	0	6	16	34	
13	5769.34	63,227	0	10	0	0	0	6	16	16	
* 14	5769.34	63,227	0	10	0	0	0	6	16	16	
* 15	5769.35	63,261	34	10	0	0	0	6	16	33	
* 16	5769.31	63,123	-138	10	0	0	0	6	16	-54	
* 17	5769.39	63,399	276	10	0	0	0	6	16	155	
* 18	5769.41	63,468	69	10	0	0	0	6	16	51	
* 19	5769.40	63,433	-35	10	0	0	0	6	16	-2	
* 20	5769.37	63,330	-103	10	0	0	0	6	16	-36	
* 21	5769.42	63,502	172	10	0	0	0	6	16	103	
* 22	5769.60	64,126	624	10	0	0	0	6	16	331	
* 23	5769.71	64,508	382	10	0	0	0	6	16	209	
* 24	5769.72	64,543	35	10	0	0	0	6	16	34	
25	5769.72	64,543	0	10	0	0	0	6	16	16	
26	5769.72	64,543	0	10	0	0	0	6	16	16	
27	5769.72	64,543	0	10	0	0	0	6	16	16	
28	5769.74	64,613	70	10	0	0	0	6	16	51	
29	5769.74	64,613	0	10	0	0	0	6	16	16	
30	5769.74	64,613	0	10	0	0	0	6	16	16	
31	5769.74	64,613	0	10	0	0	0	6	16	16	
Total cfs-days				---	310	0	0	0	192	502	3,364
Total ac-ft				5,676	615	0	0	0	380	995	6,671

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes 0 AF Plumas County and 0 AF Grizzly Ranch.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Nov 30	769.03	1,861,755										
	1 776.35	1,936,284	74,529	3,435	0	0	0	0	0	3,435	0	77,964
	2 790.14	2,082,493	146,209	3,066	0	0	0	0	0	3,066	0	149,275
	3 794.70	2,132,527	50,034	5,883	0	0	0	0	0	5,883	0	55,917
	4 797.11	2,159,311	26,784	9,002	0	0	0	0	0	9,002	0	35,786
	5 800.75	2,200,214	40,903	6,650	0	0	0	23	0	6,673	0	47,576
	6 803.14	2,227,365	27,151	6,563	0	0	0	0	0	6,563	0	33,714
	7 804.90	2,247,508	20,143	3,593	0	0	0	55	0	3,648	0	23,791
	8 806.26	2,263,160	15,652	3,310	0	0	0	24	0	3,334	0	18,986
	9 807.46	2,277,034	13,874	3,348	0	0	0	40	0	3,388	0	17,262
	10 808.06	2,283,993	6,959	6,819	0	0	0	64	0	6,883	0	13,842
	11 808.83	2,292,946	8,953	4,257	0	0	0	16	0	4,273	0	13,226
	12 809.60	2,301,923	8,977	4,216	0	0	0	0	0	4,216	0	13,193
	13 810.36	2,310,808	8,885	4,167	0	0	0	40	0	4,207	0	13,092
	14 810.75	2,315,376	4,568	4,742	0	0	0	24	0	4,766	0	9,334
	15 811.22	2,320,890	5,514	4,680	0	0	0	16	0	4,696	0	10,210
	16 811.33	2,322,182	1,292	6,259	0	0	0	0	0	6,259	0	7,551
	17 812.80	2,339,492	17,310	4,932	0	0	0	24	0	4,956	0	22,266
	18 813.75	2,350,727	11,235	5,438	0	0	0	24	0	5,462	0	16,697
	19 814.14	2,355,350	4,623	5,438	0	0	0	74	0	5,512	0	10,135
	20 814.67	2,361,643	6,293	5,933	0	0	0	49	0	5,982	0	12,275
	21 815.57	2,372,355	10,712	5,938	0	0	0	123	0	6,061	0	16,773
	22 817.52	2,395,680	23,325	3,405	0	0	0	17	0	3,422	0	26,747
	23 820.19	2,427,877	32,197	1,535	0	0	0	25	0	1,560	0	33,757
	24 822.00	2,449,887	22,010	5,900	0	0	0	109	0	6,009	0	28,019
	25 823.33	2,466,149	16,262	5,837	0	0	0	25	0	5,862	0	22,124
	26 824.54	2,481,010	14,861	5,875	0	0	0	0	0	5,875	0	20,736
	27 825.38	2,491,363	10,353	5,870	0	0	0	0	0	5,870	0	16,223
	28 826.05	2,499,643	8,280	5,836	0	0	1	43	0	5,880	0	14,160
	29 826.83	2,509,307	9,664	2,919	1	0	1	26	0	2,947	0	12,611
	30 827.63	2,519,245	9,938	2,516	1	0	1	17	0	2,535	0	12,473
	31 828.10	2,525,097	5,852	5,801	1	0	1	121	0	5,924	0	11,776
Total		663,342	153,163	3	0	4	979	0	154,149	0	817,491	

1/ Includes bypass flows.

2/ South Feather Water and Power Agency.

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

December 2012

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Nov 30	24,582										
	1	24,316	-266	3,435	452	0	22	5	4	4,917	0
	2	24,129	-187	3,066	458	0	22	5	4	4,937	0
	3	24,174	45	5,883	485	0	2,336	5	4	4,560	0
	4	24,382	208	9,002	485	0	5,972	5	4	4,183	0
	5	24,254	-128	6,650	492	0	4,113	5	4	4,223	0
	6	24,656	402	6,563	495	0	3,018	5	4	4,263	0
	7	24,873	217	3,593	496	0	22	5	3	4,243	0
	8	24,674	-199	3,310	488	0	22	5	3	4,284	0
	9	24,555	-119	3,348	486	0	22	5	2	4,263	0
	10	24,665	110	6,819	486	0	3,521	5	2	4,263	0
	11	24,335	-330	4,257	486	0	848	5	2	4,263	0
	12	24,157	-178	4,216	485	0	840	5	2	4,263	0
	13	23,923	-234	4,167	480	0	840	5	2	4,241	0
	14	24,008	85	4,742	486	0	1,022	5	2	4,241	0
	15	24,307	299	4,680	486	0	1,030	5	2	4,241	0
	16	24,768	461	6,259	486	0	2,584	5	2	4,282	0
	17	24,054	-714	4,932	493	0	2,191	5	2	4,322	0
	18	24,045	-9	5,438	498	0	2,625	5	2	3,925	0
	19	24,298	253	5,438	498	0	3,028	5	2	3,546	0
	20	24,476	178	5,933	497	0	3,204	5	2	3,489	0
	21	23,211	-1,265	5,938	497	0	5,213	5	2	3,527	0
	22	24,703	1,492	3,405	497	0	22	4	2	3,566	0
	23	23,516	-1,187	1,535	497	0	745	4	2	3,588	0
	24	24,298	782	5,900	497	0	2,729	4	2	3,527	0
	25	24,064	-234	5,837	497	0	3,741	4	2	3,546	0
	26	23,654	-410	5,875	498	0	3,948	4	2	3,527	0
	27	23,710	56	5,870	486	0	3,231	4	2	3,527	0
	28	23,943	233	5,836	486	0	3,028	4	2	3,527	0
	29	24,101	158	2,919	486	0	22	4	3	3,527	0
	30	23,774	-327	2,516	486	0	22	0	3	3,527	0
	31	23,423	-351	5,801	486	0	3,720	0	3	3,505	0
Total		-1,159	153,163	15,131	0	63,703	137	79	123,843	0	18,309

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Nov 30	131.32	36,679										
1	130.80	35,139	-1,540	22	1,452	4	464	248	91	0	697	5,008
2	130.20	32,954	-2,185	22	1,365	4	464	250	91	0	-33	5,028
3	130.20	33,088	134	2,336	1,301	4	466	250	89	0	-92	4,649
4	131.50	37,425	4,337	5,972	1,293	4	466	250	91	0	469	4,274
5	132.10	39,741	2,316	4,113	1,275	4	422	248	95	0	247	4,318
6	132.40	40,701	960	3,018	1,275	4	367	250	95	0	-67	4,358
7	131.80	38,720	-1,981	22	1,327	4	365	260	93	0	46	4,336
8	131.20	36,502	-2,218	22	1,371	4	365	278	89	0	-133	4,373
9	130.60	34,380	-2,122	22	1,363	4	365	274	85	0	-53	4,348
10	131.10	35,940	1,560	3,521	1,379	4	367	300	87	0	176	4,350
11	130.80	34,966	-974	848	1,381	4	365	373	87	0	388	4,350
12	130.30	33,426	-1,540	840	1,388	4	383	472	87	0	-46	4,350
13	129.90	32,085	-1,341	840	1,420	4	401	498	87	0	229	4,328
14	129.50	30,737	-1,348	1,022	1,448	4	405	494	83	0	64	4,324
15	129.10	29,481	-1,256	1,030	1,452	4	409	496	83	0	158	4,324
16	129.30	29,929	448	2,584	1,446	4	407	496	81	0	298	4,363
17	129.10	29,353	-576	2,191	1,442	4	407	498	81	0	-335	4,403
18	129.20	29,545	192	2,625	1,442	4	405	494	77	0	-11	4,002
19	129.30	30,154	609	3,028	1,442	4	407	496	81	0	11	3,627
20	129.60	30,933	779	3,204	1,454	9	405	482	79	0	4	3,568
21	130.80	34,931	3,998	5,213	1,462	8	383	399	83	0	1,120	3,610
22	130.20	33,088	-1,843	22	1,432	4	355	315	83	0	324	3,649
23	130.00	32,251	-837	745	1,379	4	355	278	69	0	503	3,657
24	130.20	32,987	736	2,729	1,379	4	357	266	81	0	94	3,608
25	130.70	34,793	1,806	3,741	1,375	4	357	268	83	0	152	3,629
26	131.30	36,750	1,957	3,948	1,371	4	359	266	85	0	94	3,612
27	131.70	38,034	1,284	3,231	1,377	4	357	266	87	0	144	3,614
28	132.00	39,266	1,232	3,028	1,365	4	359	266	87	0	285	3,614
29	131.30	36,927	-2,339	22	1,379	4	355	264	85	0	-274	3,612
30	130.70	34,793	-2,134	22	1,424	4	355	270	83	0	-20	3,610
31	131.20	36,256	1,463	3,720	1,420	4	369	268	83	0	-113	3,588
Total		-423	63,703	43,079	133	12,070	10,530	2,641	0	4,327	126,484	

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

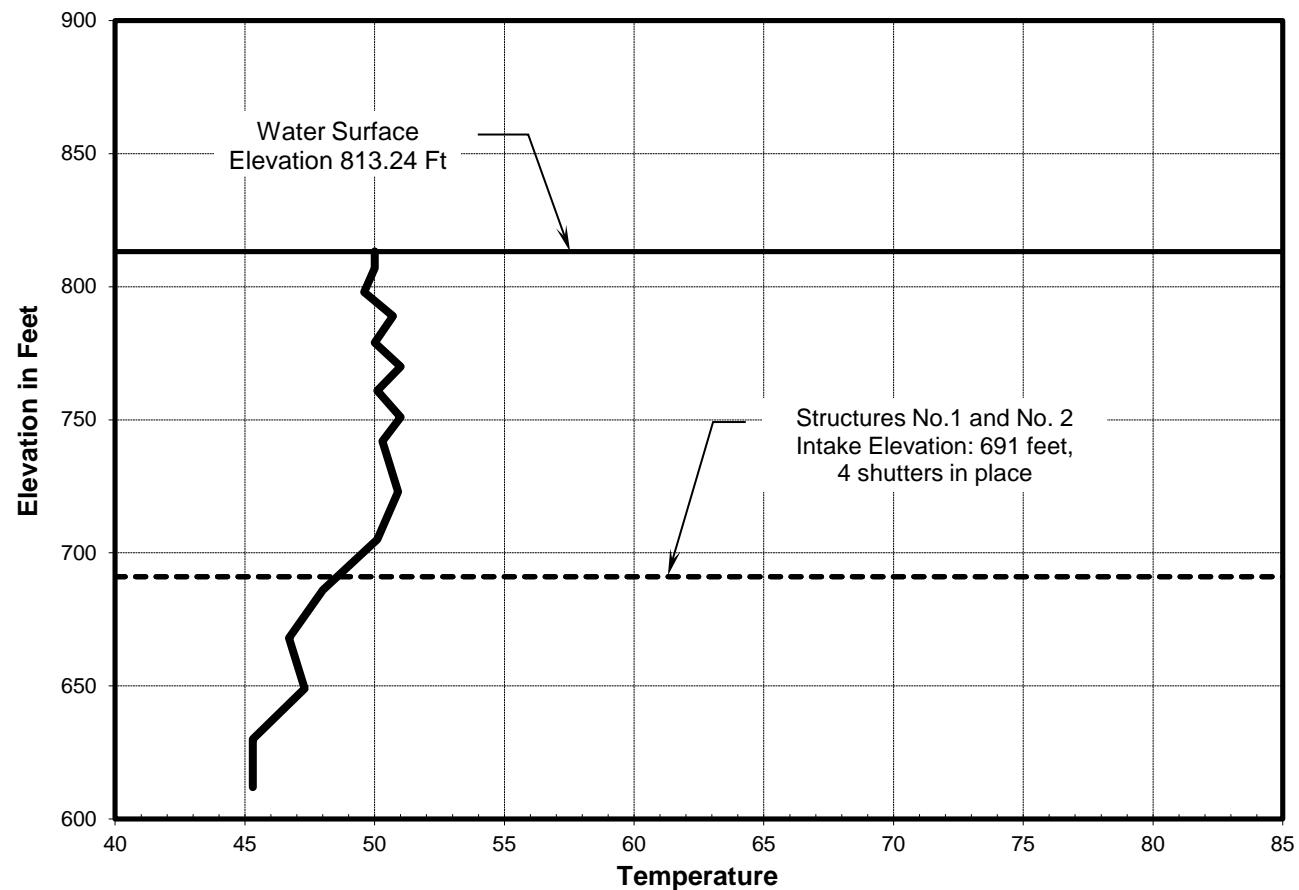
Water Temperature Data

(in degrees Fahrenheit)

December 2012

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	53.1	51.0
2	53.9	51.1
3	54.0	51.0
4	53.9	50.8
5	53.7	50.2
6	54.0	50.2
7	53.6	49.7
8	52.9	49.5
9	52.2	49.5
10	52.2	49.4
11	51.5	49.4
12	51.1	49.1
13	50.6	48.8
14	49.8	48.5
15	48.7	48.2
16	48.3	48.3
17	48.3	48.9
18	46.9	48.6
19	45.9	48.2
20	45.2	48.7
21	44.8	48.7
22	44.9	48.0
23	44.9	48.0
24	45.8	48.1
25	45.1	47.8
26	45.3	48.0
27	45.2	47.8
28	44.6	47.4
29	44.7	47.6
30	44.6	47.7
31	44.1	47.3

**Lake Oroville Temperature Profile
on December 18, 2012**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Permit	POOL A	Article 56	Settlement Water		
	No.	Structure	Mile									
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	Total	8			3	13		
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	8							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	3							
				Solano County Water Agency Fairfield / Vacaville 42"	13							
			17.00	Solano County Water Agency Central Solano	Stub							
3A	2	Cordelia Forebay	21.23		0	158		318	64			
		Cordelia Pumping Plant & Cordelia Spillway	21.30		1,501							
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	158							
				Solano County Water Agency Benicia	318							
		Cordelia Surge Tank	23.33		0							
		Creston Surge Tank Connection	25.65		0							
3B	2		26.95	Napa County Flood Control & WCD American Canyon 2	176	112		740	35			
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	740							
			27.60	Napa County Flood Control & WCD American Canyon 1	35							

Table 9. Delta Field Division Plant Data

(in acre-feet)

December 2012

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	100	79	12,873	12,873	938	0	42	0	0	8
2		65	13,243	13,243	802	0	52	0	0	8
3		63	12,861	12,861	934	0	0	0	0	8
4		66	13,327	13,327	927	0	39	0	0	0
5		68	12,940	12,940	930	0	13	0	0	9
6		63	13,300	13,300	881	0	8	0	0	5
7		64	13,272	13,272	877	0	75	0	0	5
8		51	5,281	5,281	209	0	102	0	0	5
9		50	6,339	6,339	0	0	80	0	0	5
10		46	6,272	6,272	0	0	32	0	0	5
11		38	13,020	13,020	467	0	39	0	0	5
12		44	13,059	13,059	935	0	17	0	0	9
13		43	13,059	13,059	858	0	39	0	0	7
14		39	13,141	13,141	853	0	28	0	0	3
15		41	13,091	13,091	928	0	121	0	0	2
16		47	14,128	14,128	826	0	142	0	0	9
17		45	13,570	13,570	792	0	102	0	0	21
18		44	13,832	13,832	680	0	43	0	0	6
19		42	4,543	4,543	351	0	65	0	0	15
20		44	3,144	3,144	0	0	126	0	0	22
21		41	3,176	3,176	0	0	197	0	0	0
22		37	1,620	1,620	0	0	174	0	0	0
23		42	1,447	1,447	0	0	186	0	0	0
24		43	3,267	3,267	0	0	177	0	0	0
25		44	1,409	1,409	0	0	170	0	0	0
26		31	4,441	4,441	0	0	24	0	0	0
27		27	4,228	4,228	0	0	136	0	0	0
28		28	4,368	4,368	0	0	178	0	0	0
29		28	4,368	4,368	0	0	237	0	0	0
30		33	4,368	4,368	0	0	237	0	0	0
31		31	3,265	3,265	0	0	238	0	0	0
Total	1,501	1,427	260,252	260,252	13,188	0	3,119	0	0	157

10

Table 10. Clifton Court Forebay
Daily Operation of Gates

December 2012

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	04:15	16:30									12,873
2	05:15	16:05									13,243
3	00:01	03:00	06:00	16:55							13,226
4	00:01	03:45	06:45								13,241
5	00:01	04:30	07:30	17:46							13,241
6	00:01	05:15	08:15	19:45							13,229
7	00:30	10:00	13:30	19:45	22:45						12,993
8		11:00	14:30	17:45							5,345
9	00:01	12:00									6,339
10	00:30	12:00									6,336
11	01:20	11:00	16:30	21:40							13,235
12	02:00	14:45	17:15	19:00							13,231
13	02:45	15:30	18:40	20:00							13,231
14	00:01	00:45	03:45	16:05	19:00	20:30					13,249
15	04:30	16:10	19:45	21:45							13,241
16	00:01	02:15	05:15	18:30	22:05						14,064
17		03:00	06:30	19:30							14,065
18	00:01	03:45	06:45	20:45	22:45	23:45					14,068
19	09:00	12:15									2,952
20	00:01	04:14	08:30	09:50							2,972
21	00:01	10:30	13:45	19:30							2,961
22	00:01	07:00									1,384
23	00:30	07:50	18:05	19:50							1,383
24	01:00	08:20	10:45	13:15	18:25	21:30					2,959
25	01:45	14:00	16:30	21:00							2,955
26	02:15	14:45	17:15	22:45							3,947
27	02:45	15:30	17:45								3,726
28		00:15	03:15	16:00	18:15						3,960
29		01:00	04:00	16:45	19:00						3,939
30		01:30	04:30	16:45	19:45						3,960
31		02:00	05:00	18:00	20:15	21:50					3,952
Total inflow for the month in AF:											259,500

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

December 2012

(In acre-feet)

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending				Table A	USBR	Local	Loan Water	Dry Year Purchase	
	No.	Structure	Mile							
1A			1.83	Byron-Bethany I.D.	86					
1	1	Banks Pumping Plant	3.32		260,252					
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	3,119					
		Check No. 1	5.95							
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0					
	2	Delta Mendota Canal - California Aquaduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	1/ 13,188					
				Outflow to Delta Mendota Canal from California Aqueduct	0					
	2	Check No. 2	12.01							
	3		12.47	Musco Olive	28					
		Check No. 3	18.29							
	4		22.16	Tracy Golf & Country Club	0					
		Check No. 4	23.99							
2A	5	Check No. 5	29.73							
	6	Check No. 6	34.24							
	7		35.22	Turlock Fruit Company Inflow	0					
		Check No. 7	39.91							
	8		42.46	Oak Flat Water District-A	0					
			42.9	Western Hills WD	33					
			43.81	Oak Flat Water District-B	0					
			44.64	Oak Flat Water District-C	0					
2B		Check No. 8	45.97							
	9		46.18	Oak Flat Water District-D	0					
				Oak Flat Totals:	0	0	0	0	0	
		Check No. 9	51.3							
	10	Check No. 10	56.86							
	11	Check No. 11	61.4							
	12		66.14	Veteran's Cemetery	3					
		Check No. 12	66.71		268,006					

1/ Total USBR pumping from DMC to California Aqueduct through DCI.

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Article 56	Purchase Pool B	Local	Rec.		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	3,119	6	952	21				
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	6							
	Check No. 1	3.91										
	2	Check No. 2	5.21									
	3		7.15	Zone 7 Altamont	0							
		Check No. 3	9.49	Zone 7 Patterson Storage Exchange	21							
				Zone 7 Patterson Project Water	952							
2	4	Check No. 4	10.68			4	255	87	3			
	5	Check No. 5	12.29									
	6		13.55	Zone 7 Wente #1	4							
			14.16	Zone 7 Wente #2	3							
			14.31	Ising Project Water	0							
		Check No. 6	14.65									
	7		14.78	Zone 7 Arroyo Mocho Project Water	255							
		Check No. 7	16.38									
	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Wente #3	0		13	347	19			
			16.63	Zone 7 Wente #4	1							
			16.69	Zone 7 Norman Nursery	0							
			16.70	Zone 7 Concannon Project Water	1							
				Pumped into Lake Del Valle	0							
		Del Valle Branch Pipeline		Pumped into South Bay Aqueduct	0							
				Gravity into South Bay Aqueduct	157							
5	8	Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Storage Exchange:	0	13	347	19	3			
				Project Water	0							
				Storage Released	0							
				Inflow Release	87							
				East Bay Regional Park Dist.								
6				Del Valle Recreation	3	1	347	19	3			
				Zone 7 Wente #5	13							
7		La Costa Tunnel	22.50	So. Livermore Project	0	1	347	19	3			
				So. Livermore Inflow Released	0							
			25.97	So. Livermore Stored Exchanged	0							
				Zone 7 - Kalthrof Detjens	1							
8		Mission Tunnel	28.97	ACWD		72	347	19	3			
				Vallecitos Project Water	0							
				City of San Francisco								
9		Santa Clara Pipeline	35.86	San Antonio	0	1,484	347	19	3			
				ACWD - Bayside 1 & 2 Project Water	419							
				Storage Released	0							
				Storage Exchange:	19							
				S.C.V.W.D. Meter	1,484							

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

December 2012

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Nov 30	685.33	28,654									
1	685.34	28,660	6	27	0	0	8	1	12	21	0.70
2	686.20	29,148	488	501	0	0	8	1	4	13	0.65
3	686.56	29,354	206	220	0	0	8	1	5	14	0.80
4	686.67	29,417	63	64	0	0	0	0	0	0	0.00
5	686.78	29,481	63	73	0	0	9	0	0	9	0.48
6	686.87	29,532	52	58	0	0	5	0	1	6	0.19
7	686.93	29,567	35	42	0	0	5	0	2	7	0.00
8	686.98	29,596	29	36	0	0	5	0	2	7	0.00
9	686.99	29,602	6	14	0	0	5	0	3	8	0.00
10	687.03	29,625	23	32	0	0	5	0	4	9	0.00
11	687.05	29,637	12	19	0	0	5	0	2	7	0.00
12	687.03	29,625	-12	1	0	0	9	0	4	13	0.07
13	687.04	29,631	6	14	0	0	7	0	1	8	0.00
14	687.04	29,631	0	5	0	0	3	0	2	5	0.00
15	687.05	29,637	6	9	0	0	2	0	1	3	0.02
16	687.03	29,625	-12	-1	0	0	9	0	1	10	0.17
17	686.74	29,458	-167	-146	0	0	21	0	1	22	0.00
18	686.76	29,469	12	19	0	0	6	0	2	8	0.08
19	686.72	29,446	-23	-5	0	0	15	0	3	18	0.00
20	686.96	29,584	138	161	0	0	22	0	1	23	0.00
21	686.99	29,602	17	23	0	0	0	0	5	5	0.00
22	686.92	29,561	-40	-36	0	0	0	0	5	5	1.07
23	689.49	31,074	1,513	1,514	0	0	0	0	0	0	0.02
24	693.09	33,287	2,212	2,217	0	0	0	0	5	5	1.44
25	693.09	33,287	0	2	0	0	0	0	2	2	0.00
26	695.01	34,509	1,222	1,223	0	0	0	0	1	1	0.48
27	695.51	34,831	323	324	0	0	0	0	1	1	0.02
28	695.78	35,006	175	177	0	0	0	0	2	2	0.00
29	695.99	35,143	137	137	0	0	0	0	1	1	0.10
30	696.14	35,242	99	101	0	0	0	0	2	2	0.00
31	696.24	35,308	66	67	0	0	0	0	1	1	0.00
Total		6,654	6,892	0	0	157	3	78	238	6.29	

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

December 2012

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Nov 30	222.17	48,836											
1	222.67	50,166	1,330	0	3,934	0	6,991	0	6,450	3,362	1	-441	
2	223.47	52,303	2,137	0	4,011	0	6,733	0	6,450	2,968	1	-248	
3	223.21	51,607	-696	0	4,008	0	6,821	0	7,960	2,976	1	-243	
4	222.68	50,193	-1,414	0	3,876	0	7,105	0	8,560	2,986	1	-147	
5	222.30	49,182	-1,011	0	3,817	0	7,120	0	8,108	3,054	1	-284	
6	222.20	48,916	-266	0	3,826	0	6,932	0	8,307	2,134	1	-450	
7	222.81	50,539	1,623	0	3,893	0	7,200	0	6,994	3,006	1	-274	
8	221.13	46,101	-4,438	0	3,080	0	2,772	0	4,786	3,179	1	-123	
9	221.62	47,388	1,287	0	2,619	0	3,479	0	2,120	3,254	1	-74	
10	222.25	49,049	1,661	0	2,681	0	2,687	0	2,120	2,209	1	-201	
11	223.16	51,474	2,425	0	3,321	0	6,237	0	6,618	1,389	1	-327	
12	224.05	53,861	2,387	0	3,912	0	7,243	0	7,678	2,198	1	-75	
13	223.59	52,625	-1,236	0	3,802	0	7,001	0	8,390	2,684	1	-351	
14	223.35	51,982	-643	0	3,770	0	7,029	0	8,347	2,456	1	-319	
15	223.05	51,180	-802	0	3,744	0	7,137	0	8,310	2,755	1	-219	
16	222.61	50,006	-1,174	0	3,825	0	7,075	0	8,260	2,903	1	-328	
17	223.46	52,276	2,270	0	3,844	0	7,252	0	8,225	1,456	1	-270	
18	224.16	54,158	1,882	0	3,822	0	7,210	0	8,192	1,667	1	-223	
19	222.90	50,779	-3,379	0	2,819	0	2,714	0	4,693	2,500	1	-43	
20	222.30	49,182	-1,597	0	727	0	1,537	0	2,050	1,020	1	2	
21	221.58	47,283	-1,899	0	771	0	1,462	0	2,044	1,147	1	2	
22	221.86	48,019	736	0	650	0	743	0	0	1,092	1	71	
23	222.20	48,916	897	0	657	0	796	0	0	1,145	1	145	
24	223.06	51,206	2,290	0	741	0	1,288	0	0	787	1	-86	
25	222.40	49,447	-1,759	0	720	0	957	0	2,047	574	1	58	
26	222.67	50,166	719	0	837	0	2,065	0	2,040	393	2	-105	
27	223.06	51,206	1,040	0	1,143	0	2,138	0	2,040	662	5	-50	
28	223.44	52,223	1,017	0	1,612	0	1,945	0	2,040	750	5	-249	
29	222.76	50,406	-1,817	0	1,554	0	2,131	0	4,064	529	5	-3	
30	221.59	47,309	-3,097	0	1,563	0	1,835	0	4,040	709	5	-205	
31	221.40	46,810	-499	0	1,460	0	1,483	0	2,513	638	5	-39	
Total				-2,026	0	81,039	0	135,118	0	153,446	58,582	52	-5,099
Mean cfs				---	0	2,614	0	4,359	0	4,950	1,890	2	-164
Acre-feet				-2,026	0	160,741	0	268,006	0	304,358	116,198	103	-10,114

1/ Pump-in located at Mile 79.67R.

2/ Includes 60 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., and 43 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

December 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Nov 30	432.85	807,324						
1	434.18	819,741	12,417	6,450	0	157	0	-33
2	435.56	832,693	12,952	6,450	0	151	0	231
3	437.20	848,175	15,482	7,960	0	164	0	9
4	439.11	866,327	18,152	8,560	0	159	0	750
5	440.73	881,826	15,499	8,108	0	137	0	-157
6	442.39	897,802	15,976	8,307	0	116	0	-137
7	443.76	911,061	13,259	6,994	0	124	0	-185
8	444.68	920,001	8,940	4,786	0	115	0	-164
9	445.07	923,800	3,799	2,120	0	130	0	-75
10	445.45	927,506	3,706	2,120	0	142	0	-110
11	446.76	940,321	12,815	6,618	0	127	0	-30
12	448.19	954,378	14,057	7,678	0	134	0	-457
13	449.81	970,386	16,008	8,390	0	135	0	-184
14	451.37	985,885	15,499	8,347	0	179	0	-354
15	452.93	1,001,465	15,580	8,310	0	212	0	-243
16	454.46	1,016,825	15,360	8,260	0	197	0	-319
17	455.99	1,032,261	15,436	8,225	0	196	0	-247
18	457.48	1,047,368	15,107	8,192	0	202	0	-374
19	458.30	1,055,713	8,345	4,693	0	205	0	-281
20	458.65	1,059,281	3,568	2,050	0	185	0	-66
21	458.97	1,062,547	3,266	2,044	0	134	0	-263
22	459.00	1,062,853	306	0	0	151	0	305
23	459.04	1,063,262	409	0	0	150	0	356
24	459.05	1,063,364	102	0	0	126	0	177
25	459.42	1,067,145	3,781	2,047	0	116	0	-25
26	459.78	1,070,829	3,684	2,040	0	77	0	-106
27	460.15	1,074,619	3,790	2,040	0	60	0	-69
28	460.52	1,078,413	3,794	2,040	0	60	0	-67
29	461.26	1,086,015	7,602	4,064	0	60	0	-171
30	462.00	1,093,634	7,619	4,040	0	60	0	-139
31	462.46	1,098,379	4,745	2,513	0	146	0	25
Total			291,055	153,446	0	4,307	0	-2,403
Mean cfs			---	4,950	0	139	0	-78
Acre-feet			291,055	304,358	0	8,540	0	-4,763

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 6,285 AF, Casa De Fruta 0 AF, and San Benito 2,255 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

December 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	6,669	5,636	0	0	12,794	6,646	311
2	5,887	4,852	0	0	12,794	4,597	299
3	5,902	4,848	0	0	15,789	7,610	325
4	5,922	4,874	0	0	16,979	9,842	316
5	6,057	4,967	0	0	16,083	8,631	271
6	4,233	3,196	0	0	16,476	8,391	231
7	5,963	4,927	0	0	13,872	5,786	246
8	6,305	5,245	0	0	9,494	2,370	228
9	6,455	5,418	0	0	4,205	18	258
10	4,382	3,378	0	0	4,205	17	282
11	2,756	1,755	0	0	13,126	8,884	251
12	4,359	3,291	0	0	15,229	7,197	265
13	5,324	4,250	0	0	16,642	9,764	268
14	4,871	3,866	0	0	16,556	9,712	356
15	5,464	4,449	0	0	16,483	9,665	421
16	5,759	4,729	0	0	16,384	8,499	391
17	2,888	1,829	0	0	16,314	8,459	388
18	3,306	2,239	0	0	16,248	8,425	401
19	4,959	3,899	0	0	9,308	1,513	406
20	2,023	953	0	0	4,066	-12	366
21	2,276	1,268	0	0	4,054	4,054	265
22	2,165	1,124	0	0	0	0	299
23	2,271	1,249	0	0	0	0	298
24	1,562	532	0	0	0	0	249
25	1,138	92	0	0	4,060	53	230
26	779	-166	0	0	4,046	64	153
27	1,314	293	0	0	4,046	4,046	119
28	1,488	491	0	0	4,046	4,046	119
29	1,050	53	0	0	8,061	4,012	119
30	1,406	434	0	0	8,013	3,986	119
31	1,265	194	0	0	4,985	1,045	290
Total	116,198	84,165	0	0	304,358	147,320	8,540

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
December 2012

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

Capacity 34,560 ac-ft

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Nov 30	319.86	17,029					
1	319.86	17,029	0	0	0	0	0
2	319.88	17,038	9	5	0	0	-1
3	319.88	17,038	0	0	0	0	0
4	319.87	17,033	-5	0	0	0	-5
5	319.89	17,042	9	5	0	0	-1
6	319.88	17,038	-4	0	0	0	-4
7	320.17	17,162	124	63	0	0	-1
8	320.16	17,158	-4	0	0	0	-4
9	320.15	17,154	-4	0	0	0	-4
10	320.15	17,154	0	0	0	0	0
11	320.14	17,149	-5	0	0	0	-5
12	320.14	17,149	0	0	0	0	0
13	320.13	17,145	-4	0	0	0	-4
14	320.12	17,141	-4	0	0	0	-4
15	320.13	17,145	4	2	0	0	0
16	320.12	17,141	-4	0	0	0	-4
17	320.13	17,145	4	2	0	0	0
18	320.11	17,137	-8	0	0	0	-8
19	320.10	17,132	-5	0	0	0	-5
20	320.10	17,132	0	0	0	0	0
21	320.10	17,132	0	0	0	0	0
22	320.12	17,141	9	5	0	0	-1
23	320.16	17,158	17	9	0	0	-1
24	320.35	17,239	81	41	0	0	0
25	320.44	17,277	38	19	0	0	0
26	320.84	17,448	171	86	0	0	0
27	320.99	17,513	65	33	0	0	0
28	321.06	17,543	30	15	0	0	0
29	321.10	17,560	17	9	0	0	-1
30	321.12	17,569	9	5	0	0	-1
31	321.13	17,573	4	2	0	0	0
Total			544	301	0	0	-53
Mean cfs			---	10	0	0	---
Acre-feet			544	597	0	0	-53

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

December 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Nov 30	602.20	0			0	0	0
1	Not Observed				0	0	0
2	Not Observed				0	0	0
3	Not Observed				0	0	0
4	Not Observed				0	0	0
5	Not Observed				0	0	0
6	Not Observed				0	0	0
7	602.20	803	0		0	0	0
8	Not Observed				0	0	0
9	Not Observed				0	0	0
10	Not Observed				0	0	0
11	Not Observed				0	0	0
12	Not Observed				0	0	0
13	Not Observed				0	0	0
14	602.20	803	0		0	0	0
15	Not Observed				0	0	0
16	602.20	803	0		0	0	0
17	Not Observed				0	0	0
18	Not Observed				0	0	0
19	Not Observed				0	0	0
20	Not Observed				0	0	0
21	Not Observed				0	0	0
22	602.20	803	0		0	0	0
23	Not Observed				0	0	0
24	Not Observed				0	0	0
25	Not Observed				0	0	0
26	602.20	803	0		0	0	0
27	Not Observed				0	0	0
28	Not Observed				0	0	0
29	Not Observed				0	0	0
30	Not Observed				0	0	0
31	602.20	803	0		0	0	0
Total			0	0	0	0	0
Mean cfs			---				---
Acre-feet			0	0	0	0	0

1/ Not available on a daily basis.

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		268,006						
3A	San Luis Reservoir			Department of Parks and Recreation		6,285					
				San Felipe Division Santa Clara Water District	6,285						
				Casa de Fruita Santa Clara Water District	0						
				San Felipe Division San Benito Water District	2,255	2,255					
				Reach 3A Subtotal:	8,540						
3	O'Neill Forebay		70.85	Department of Parks and Recreation	0						
				Cattle Program	0						
				Department of Fish & Game	60			33	27		
			70.91 Thru	San Luis Water District	43	43					
				(Floodwater Inflow)							
				Reach 3 Subtotal:	103	43	0	33	27		
			Dos Amigos Pumping Plant	86.73	116,198						
4	14		89.03			136					
			Thru 94.06	San Luis Water District	136						
			89.66								
			Thru 89.67	Pacheco Water District	64						
			89.68	Panoche Water District	1						
			89.70	City of Dos Palos	69						
	15		Check No. 14	95.06							
			98.15			88					
			Thru 104.20	San Luis Water District	88						
			96.15								
			Thru 102.64	Panoche Water District	382						
				(Floodwater Inflow)							
			102.64	Broadview Water District	0						
			105.22			1,336					
			Thru 108.64	Westlands Water District	1,336						
			Check No.15	108.50							
			Reach 4 Subtotal:	2,076	2,076	0	0	0	0		
			San Felipe Division Total:	8,540	8,540	0	0	0	0		
			Pacheco Water District Total:	64	64	0	0	0	0		
			Broadview Water District Total:	0	0	0	0	0	0		
			City of Dos Palos Total:	69	69	0	0	0	0		
			SLWD Reach 4 Subtotal:	224	224	0	0	0	0		
			Panoche Water District Total:	383	383	0	0	0	0		
			SLWD Total:	267	267	0	0	0	0		
			Westlands WD Reach 4 Subtotal:	1,336	1,336	0	0	0	0		

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
5	16		110.52	(Reverse flow, Kings River)	0	457	457	0	0		
				Westlands Water District	457						
				Thru	0						
				122.05	0						
				Dept. of Fish and Game @ Lat. 4L	0						
				Dept. of Fish and Game @ Lat. 6L	0						
				Dept. of Fish and Game @ Lat. 7L	0						
			Check No. 16	122.07		1,750	1,750	0	0		
	17		124.18	Westlands Water District	1,750						
				Thru	0						
	18		132.74			2,045	2,045	0	0		
				Check No. 17	132.95						
			133.81	Westlands Water District	2,045						
				Thru	0						
			142.61								
				Pleasant Valley Pumping Plant	949	949	949	0	0		
				143.16	City of Coalinga						
			143.16		178						
				Check No. 18	143.23						
					Reach 5 Subtotal:	5,379	5,379	0	0		
6	19		145.26	GWF Energy	1	1/ 72	1	0	0		
				City of Huron	0						
				Kings County to Lemoore NAS Through WWD	72						
				Kings County through WWD 30L	0						
			151.19	Westlands Water District	3,351						
				Check No. 19	155.64						
					Reach 6 Subtotal:	3,424	3,351	73	0		
7	20		156.34	City of Huron	56	2,016	56	0	0		
				SWP Construction @ Lat. 24R	0						
			156.40	Westlands Water District	2,016						
				Thru	0						
			163.69			449	168	0	0		
				Check No. 20	164.69						
	21		164.79	City of Avenal	168	449	168	0	0		
				167.04	Westlands Water District						
			171.67	Thru	449						
				Check No. 21	172.40						
					Reach 7 Total:	2,689	2,689	0	0		
					SWP Const. / GWF Energy	1	0	2/ 1	0		
					Westlands WD Total:	12,353	12,353	0	0		
					City of Coalinga Total:	178	178	0	0		
					City of Huron Total:	56	56	0	0		
					Kings County to Lemoore NAS Through WWD	72	0	72	0		
					City of Avenal Total:	168	168	0	0		
					Total San Luis Field Division Deliveries:	22,211	22,078	73	33		
1/ SWP water, from County of Kings to Westlands Water District, Table A.											
2/ Includes GWF Energy water and DWR construction water 22R.											

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

December 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Nov 30	28,837								
1	29,055	218	0	3,362	12	12	169	3,027	-32
2	29,088	33	0	2,968	12	12	169	2,673	-86
3	29,043	-45	0	2,976	12	12	169	2,679	-127
4	28,736	-307	0	2,986	12	12	169	2,688	-260
5	28,169	-567	0	3,054	12	12	169	2,750	-397
6	28,606	437	0	2,134	10	9	231	1,921	257
7	28,894	288	0	3,006	10	9	231	2,706	96
8	28,192	-702	0	3,179	10	9	231	2,863	-420
9	28,251	59	0	3,254	10	9	231	2,930	-44
10	28,578	327	0	2,209	10	9	231	1,989	195
11	28,001	-577	0	1,389	10	9	231	1,251	-179
12	27,940	-61	0	2,198	10	9	231	1,979	0
13	28,588	648	0	2,684	10	9	231	2,417	310
14	29,211	623	0	2,456	2	7	231	2,211	309
15	28,881	-330	0	2,755	2	6	231	2,480	-202
16	28,428	-453	0	2,903	2	6	231	2,613	-279
17	28,707	279	0	1,456	2	6	231	1,311	234
18	28,273	-434	0	1,667	2	6	231	1,501	-146
19	28,156	-117	17	2,500	2	6	231	2,251	-86
20	27,552	-604	17	1,020	1	0	240	918	-182
21	27,587	35	38	1,147	1	0	240	1,033	106
22	28,166	579	38	1,092	1	0	240	983	386
23	28,535	369	38	1,145	1	0	240	1,031	275
24	28,604	69	38	787	1	0	240	708	159
25	28,644	40	68	574	1	0	240	517	136
26	28,774	130	68	393	1	0	240	354	199
27	28,790	16	68	662	1	0	240	596	115
28	29,168	378	68	750	5	6	117	675	176
29	28,726	-442	68	529	5	6	117	476	-215
30	29,008	282	68	709	5	6	117	638	131
31	28,987	-21	68	638	5	6	117	574	-14
Total		150	662	58,582	180	193	6,467	52,743	415
Mean cfs		---	21	1,890	6	6	209	1,701	13
Acre-feet		150	1,313	116,198	357	383	12,828	104,616	823

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 64 AF to Pacheco W.D., 69 AF to the City of Dos Palos and 224 AF to San Luis Water District.

3/ Includes 56 AF to the City of Huron, 168 AF to the City of Avenal, 178 AF to the City of Coalinga, 0 AF to Huron P&R

@ 22R, 72 AF to Lemoore N.A.S. @ 30L, 1 AF to GWF @ 30L, 0 AF to DWR Water Truck, 0 AF to Kings County @ 30L,

0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DFG @ 7L,

0 AF to Non-Project Water, 11,879 AF to Westlands Water District and 949 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

December 2012

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	106	116	32	29	33	5,068	4,996	4,877	4,806
2	62	66	36	36	36	5,048	4,885	4,731	4,586
3	55	61	32	28	33	4,934	4,772	4,663	4,642
4	73	76	37	33	38	4,987	4,886	4,761	4,671
5	76	80	52	47	53	5,781	5,014	4,861	4,752
6	87	85	34	32	35	2,071	1,766	1,688	1,779
7	102	97	45	39	46	4,814	4,490	4,408	4,334
8	118	135	32	29	33	5,512	5,394	5,303	5,290
9	45	49	46	40	48	5,420	5,394	5,284	5,290
10	41	44	46	41	46	3,469	3,363	3,270	3,216
11	59	61	44	41	46	2,703	2,697	2,575	2,580
12	63	55	45	39	45	2,782	2,806	2,623	2,483
13	53	50	43	39	44	3,466	3,219	3,158	3,114
14	59	61	31	27	31	3,298	3,130	2,959	2,935
15	42	46	33	29	33	5,353	5,366	5,303	5,210
16	61	63	36	34	38	5,407	5,394	5,328	5,317
17	44	49	31	28	31	2,149	2,578	2,491	2,524
18	41	48	36	32	37	3,653	3,588	3,443	3,379
19	75	84	37	35	38	4,605	4,537	4,418	4,421
20	64	69	22	22	22	1,689	1,562	1,500	1,405
21	63	72	35	31	35	1,608	1,300	1,192	1,235
22	105	118	90	54	90	2,344	2,075	2,059	2,028
23	92	101	36	34	37	2,036	2,003	2,004	2,037
24	12	16	39	35	39	1,420	1,332	1,293	1,301
25	124	119	25	22	26	1,314	1,327	1,240	1,274
26	19	27	26	24	26	1,306	1,308	1,297	1,340
27	21	23	36	33	37	1,353	1,277	1,241	1,265
28	64	72	39	34	41	1,361	1,340	1,284	1,341
29	94	86	31	31	32	1,519	1,510	1,674	1,450
30	77	85	20	18	20	1,666	1,674	1,651	1,684
31	72	76	38	34	39	1,516	1,435	1,343	1,414
Total	2,069	2,190	1,165	1,030	1,188	99,652	96,418	93,922	93,103

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Pumpin Recovery	MWD Table A	Other		
	No.	Structure										
7	21	Check No. 21	172.40		104,616							
8C	22		172.66	Empire West Side ID TL - A	564	564				1/ 16		
				County of Kings TL - A	0		39					
				Tulare Lake Basin WSD TL-A	39							
			175.18	Dudley Ridge WD - 1	0	11						
			177.54	Dudley Ridge WD - 1B	11							
			180.64	Tulare Lake Basin WSD - C	0	2						
			180.65	Dudley Ridge WD - 1A	0							
			182.99	Dudley Ridge WD - 2	2	1						
			183.00	Tulare Lake Basin WSD TL - B	16							
				County of Kings TL-B	0							
31A	8D			Dudley Ridge WD - Paramount	1							
		184.00	Coastal Branch	2,069								
8D			184.63	Dudley Ridge WD - 3	0	14	0	0	0	0		
				Dudley Ridge Reach 8D Total:	14							
9	23			Tulare Lake Basin WSD Total:	55	39	0	0	0	16		
				Check No. 22	184.82							
				189.69	Kern County Water Agency Lost Hills Water Dist. - 1	70		70	9			
				191.18	Kern County Water Agency Lost Hills Water Dist. - 2	0						
				194.22	Kern County Water Agency Lost Hills Water Dist. - 3	0						
				196.40	Kern County Water Agency Berrenda Mesa - 2	9						
				196.75	Kern County Water Agency Lost Hills Water Dist. - 4	0						
10A	24		K.C.W.A. Reach 9 Subtotal:		79	0	0	79	0	0		
			Check No. 23	197.05								
10A	25			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	89		89	19			
				202.05	Kern County Water Agency Lost Hills Water Dist. - 5	0						
				205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0						
				206.99	Kern County Water Agency Semitropic WSD - 3	19						
			Check No. 24	207.94			3,112	10	728			
				209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	10						
				209.78	Kern National Wildlife Refuge USBR BV-1B	3,112						
					Kern County Water Agency Buena Vista WSD 1B	728						
					KCWA Semitropic WSD	3,428						
				209.80	KCWA Semitropic WSD Penstocks	0						
					USBR Total:	3,112						
					K.C.W.A. Reach 10A Subtotal:	4,274	0	0	4,274	0		

1/ Conveyance of non-project water Art 55, from Ca. Dept. of Water Resources to Tulare Lake Basin WSD.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Pumpin Recovery	MWD Table A	Other		
	No.	Structure										
11B	25		210.75	Kern County Water Agency Belridge - 2	0			1,162				
			214.11	Kern County Water Agency Belridge - 3	1,162							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	609							
				Kern County Water Agency Belridge - 5D	116							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	1,887	0	0	1,887	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0			342				
				Kern County Water Agency West Kern - 3	342							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0		602	1,926	2/ 3,900			
		Check No. 27	231.73									
	28		235.75	Kern County Water Agency Buena Vista - 2	0							
				Kern County WA CVC	6,428							
				DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
		Check No. 28	238.11	DWR Wells	0							
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	6,428	602	0	0	1,926	3,900		
13B	29		238.19	Kern Water Bank Inflow	0		24	490				
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	514							
	30		243.09	Kern County Water Agency Buena Vista - 3	0		711	490				
			Check No. 29	244.54								
			249.85	Kern County Water Agency Buena Vista - 4	711							
			Buena Vista Pumping Plant	250.99	99,652							
				K.C.W.A. Reach 13B Subtotal:	1,225	0	0	735	490	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	67						
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	67							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ 3,047 AF of AVEK Table A, and 853 AF of SBFCWCD exchanged with MWD at KCWA's Strand Ranch area.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending		No.			Table A	USBR	Pumpin Recovery	MWD Table A	Other		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14									
	32		258.61		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 3		0							
			260.44		Kern County Water Agency							
		Check No. 32	261.72		Wheeler Ridge-Maricopa - 4							
14B	33		KCWA Reach 14A Subtotal:		67	67	0	0	0	0		
			264.42		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 5		0							
	34		266.91		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 6		0							
			Check No. 33		267.36							
			270.24		Kern County Water Agency							
14C	35		Wheeler Ridge-Maricopa - 7		0							
			272.39		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 8		372							
			276.09		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 9		299							
15A	36		277.30		Kern County Water Agency							
			Arvin-Edison WSD		296							
			Reach 14C Total:		967	671	0	0	296	0		
			Teerink Pumping Plant		278.13	96,418						
			279.02		Kern County Water Agency							
16A	37		Wheeler Ridge-Maricopa - 9A		76	76						
			280.06		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 10		484	484						
			Reach 15-A Total:		560	560	0	0	0	0		
		Chrisman Pumping Plant	280.36		93,922							
16A	38		282.06		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 11		0							
			Check No. 37		283.95							
			285.01		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 12		16	16						
16A	39		286.39		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 13A		0							
			287.06		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 13		0							
			Check No. 38		287.09							
16A	40		287.62		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 13B		0							
			Check No. 39		290.21							
			291.26		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 14		275	275						
17E	Edmonston Pumping Plant		293.07		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 15		0							
			Kern County Water Agency		Tehachapi Cummings CWD							
			K.C.W.A. Reach 16A Subtotal:		291	291	0	0	0	0		
			293.45		93,103							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

December 2012

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries				
	Beginning and Ending				Table A	USBR	Pumpin Recovery	MWD Table A	Other
	No.	Structure	Mile						
31A	C-1	Coastal Branch Control	0.02		2,069				
		Las Perillas Pumping Plant	1.16		2,069				
	C-2		3.79	Green Valley Water District	0				
		Badger Hill Pumping Plant	4.27		2,190				
	C-3	Coastal Check No. 3	7.21						
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0				
		Coastal Check No. 4	9.34						
	C-5	Coastal Check No. 5	12.20						
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	10	10			
			14.83	Kern County Water Agency Berrenda Mesa - 1	907	907			
				Kern County Water Agency Berrenda Mesa - PO	0				
		Devil's Den Pumping Plant	14.86		1,165				
				K.C.W.A. Reach 31A Subtotal:	917	917	0	0	0
				K.C.W.A. Total:	17,037	3,108	0	7,317	2,712
33A	C-7	Bluestone Pumping Plant	19.05		1,030				
	C-8	Polonio Pass Pumping Plant	26.54		1,188				
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant					
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	784	784			
		Tank Site 2	58.63	Central Coast:	0	331			
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	331				
		Energy Dissipater	78.12						
	Lopez T.O.		85.86	SLOCFC & WCD	0				
35	C-12			CCWA Total:	1,115	1,115	0	0	0
		Guadalupe T.O.	102.70	SBCFC & WCD	0				
		Santa Maria T.O.	107.43	SBCFC & WCD	0				
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0				
38				SBCFC & WCD Total:	0				
	Tank Site 5	115.42							

Table 24. Southern Field Division Plant Data

(in acre-feet)

December 2012

Date	West Branch						East Branch						East Branch Extension				
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume				
1	4,697	3,144	0	1,387	1,719	0	0	0	99	0	0	0	0	937	64	58	32
2	4,813	3,147	0	1,388	4,707	0	0	0	0	0	8	0	0	1,073	65	58	32
3	4,664	3,149	0	1,388	5,334	0	0	0	0	0	9	0	0	1,112	65	58	32
4	4,742	3,142	0	1,388	3,788	0	0	0	0	0	9	0	0	942	64	58	32
5	4,849	3,146	0	1,388	3,627	0	0	0	0	37	0	0	10	1,066	63	58	32
6	1,101	2,150	0	72	3,248	0	0	0	1,127	0	0	0	9	954	52	51	32
7	2,443	2,816	0	0	3,116	0	0	0	1,397	1,110	0	0	9	761	41	41	32
8	3,036	3,174	0	0	1,871	0	0	0	1,785	1,794	1,203	0	0	813	58	58	32
9	3,410	3,173	0	0	3,882	0	0	0	1,529	1,699	1,293	0	0	915	52	52	32
10	1,652	1,767	0	0	1,011	0	0	0	1,223	1,515	1,187	0	0	645	56	52	32
11	1,163	1,380	0	0	1,300	0	0	0	1,215	1,423	1,466	0	0	667	65	60	32
12	1,226	1,476	0	0	1,326	0	0	0	992	1,286	1,335	0	0	698	63	60	32
13	1,704	1,598	0	0	1,434	124	0	0	1,190	1,361	1,284	0	0	529	62	60	32
14	1,581	1,450	0	0	3,479	0	0	0	1,150	1,239	1,252	0	0	569	62	60	32
15	2,878	1,838	0	0	722	0	0	0	1,760	1,919	1,988	0	0	640	67	60	32
16	2,820	2,366	0	0	125	0	0	0	2,264	2,369	2,438	0	0	684	69	60	32
17	1,625	2,301	0	0	5,685	2,675	0	0	1,112	1,237	1,459	0	0	522	63	60	32
18	2,074	3,177	0	0	2,033	0	0	0	545	650	87	0	0	545	50	50	32
19	3,661	3,190	0	0	2,135	0	0	0	1,523	185	275	0	0	644	59	60	32
20	1,325	792	0	0	2,639	0	0	0	322	336	491	0	0	902	59	60	32
21	841	788	0	0	1,249	0	0	0	339	340	355	0	0	681	58	60	32
22	896	657	0	0	223	0	0	0	1,091	952	999	0	0	603	58	59	32
23	900	667	0	0	131	0	0	0	711	954	921	0	0	602	59	59	32
24	636	596	0	0	182	0	0	0	603	616	574	0	0	600	59	59	32
25	596	553	0	0	111	0	0	0	603	638	579	0	0	601	58	60	32
26	529	583	0	0	244	0	0	0	603	606	576	0	0	645	58	59	32
27	420	440	0	0	1,494	0	0	0	661	667	617	0	0	772	58	59	32
28	424	523	0	0	435	0	0	0	743	726	602	0	0	676	59	58	32
29	423	522	0	0	446	0	0	0	702	769	822	0	0	1,164	48	48	32
30	478	420	0	0	163	0	0	0	975	988	982	0	0	1,697	58	58	32
31	423	420	0	0	123	0	0	0	992	988	998	0	0	1,848	58	58	32
Total	62,030	54,545	0	7,011	57,982	2,799	0	0	27,256	26,404	23,809	0	28	25,507	1,830	1,771	992

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)		
				Project			Natural	Project			To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.			
Nov 30	2,574	164,283												
1	2,576	167,268	2,985	0	3,144	1,387	14	1,719	0	14	0	173		
2	2,576	167,306	38	0	3,147	1,388	14	4,707	0	14	0	210		
3	2,575	166,541	-765	0	3,149	1,388	14	5,334	0	14	0	32		
4	2,576	167,498	957	0	3,142	1,388	14	3,788	0	14	0	215		
5	2,577	168,626	1,128	0	3,146	1,388	14	3,627	0	14	0	221		
6	2,576	167,652	-974	0	2,150	72	14	3,248	1	16	0	55		
7	2,576	167,498	-154	0	2,816	0	15	3,116	0	16	0	147		
8	2,577	168,600	1,102	0	3,174	0	15	1,871	0	16	0	-200		
9	2,576	167,639	-961	0	3,173	0	14	3,882	0	16	0	-250		
10	2,577	168,485	846	0	1,767	0	14	1,011	0	16	0	92		
11	2,577	168,446	-39	0	1,380	0	14	1,300	0	16	0	-117		
12	2,577	168,639	193	0	1,476	0	15	1,326	0	16	0	44		
13	2,577	168,935	296	124	1,598	0	17	1,434	0	16	0	7		
14	2,576	166,770	-2,165	0	1,450	0	16	3,479	0	16	0	-136		
15	2,576	167,844	1,074	0	1,838	0	16	722	0	16	0	-42		
16	2,578	170,134	2,290	0	2,366	0	16	125	0	16	0	49		
17	2,576	166,783	-3,351	0	2,301	0	16	5,685	0	16	0	33		
18	2,576	167,818	1,035	0	3,177	0	15	2,033	1	16	0	-107		
19	2,577	168,716	898	0	3,190	0	16	2,135	0	16	0	-157		
20	2,576	166,808	-1,908	0	792	0	15	2,639	0	16	0	-60		
21	2,575	166,235	-573	0	788	0	15	1,249	0	16	0	-111		
22	2,576	166,770	535	0	657	0	16	223	0	16	0	101		
23	2,576	167,230	460	0	667	0	16	131	0	16	0	-76		
24	2,576	167,613	383	0	596	0	16	182	0	16	0	-31		
25	2,577	168,100	487	0	553	0	16	111	0	16	0	45		
26	2,577	168,369	269	0	583	0	16	244	0	16	0	-70		
27	2,576	167,230	-1,139	0	440	0	15	1,494	0	16	0	-84		
28	2,576	167,268	38	0	523	0	16	435	0	16	0	-50		
29	2,576	167,396	128	0	522	0	16	446	0	17	0	53		
30	2,576	167,805	409	0	420	0	16	163	0	17	0	153		
31	2,576	167,908	103	0	420	0	16	123	0	17	0	-193		
Total				3,625	124	54,545	7,011	472	57,982	2	489	0	-54	

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation
(in acre-feet except as noted)

Capacity: 32,476 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Nov 30	1512.89	20,313								
1	1505.15	17,364	-2,949	1,719	0	0	0	4,644	-24	
2	1517.22	22,071	4,707	4,707	0	0	0	0	0	
3	1522.91	24,496	2,425	5,334	0	0	0	2,954	45	
4	1519.98	23,232	-1,264	3,788	0	0	0	5,055	3	
5	1517.22	22,071	-1,161	3,627	0	0	0	4,719	-69	
6	1514.33	20,889	-1,182	3,248	0	0	0	4,431	1	
7	1511.91	19,927	-962	3,116	0	0	0	4,079	1	
8	1508.41	18,578	-1,349	1,871	0	0	0	3,219	-1	
9	1517.16	22,046	3,468	3,882	0	0	0	0	-414	
10	1519.40	22,986	940	1,011	0	0	0	0	-71	
11	1518.06	22,421	-565	1,300	0	0	0	2,007	142	
12	1510.64	19,431	-2,990	1,326	0	0	0	4,193	-123	
13	1506.34	17,803	-1,628	1,434	0	124	0	2,949	11	
14	1509.16	18,862	1,059	3,479	0	0	0	2,419	-1	
15	1509.30	18,916	54	722	0	0	0	669	1	
16	1509.41	18,958	42	125	0	0	0	0	-83	
17	1516.97	21,968	3,010	5,685	0	0	0	2,258	-417	
18	1511.41	19,731	-2,237	2,033	0	0	0	4,271	1	
19	1508.57	18,638	-1,093	2,135	0	0	0	3,261	33	
20	1509.19	18,874	236	2,639	0	0	0	2,452	49	
21	1511.28	19,680	806	1,249	0	0	0	0	-443	
22	1511.79	19,879	199	223	0	0	0	0	-24	
23	1512.22	20,049	170	131	0	0	0	0	39	
24	1512.66	20,222	173	182	0	0	0	0	-9	
25	1512.88	20,309	87	111	0	0	0	0	-24	
26	1513.44	20,532	223	244	0	0	0	0	-21	
27	1514.36	20,901	369	1,494	0	0	0	1,207	82	
28	1511.14	19,625	-1,276	435	0	0	0	1,613	-98	
29	1512.27	20,068	443	446	0	0	0	0	-3	
30	1512.71	20,242	174	163	0	0	0	0	11	
31	1512.93	20,329	87	123	0	0	0	0	-36	
Total				16	57,982	0	124	0	56,400	
									-1,442	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows		
				Natural	Project					
Nov 30	1483.17	257,062								
1	1485.10	260,858	3,796	0	4,644	4	886	0	0 34	
2	1484.62	259,911	-947	0	0	4	902	0	0 -49	
3	1485.77	262,183	2,272	0	2,954	4	922	0	0 236	
4	1487.73	266,079	3,896	0	5,055	4	956	0	0 -207	
5	1489.65	269,927	3,848	0	4,719	4	823	0	0 -52	
6	1491.29	273,231	3,304	0	4,431	4	873	0	0 -258	
7	1492.89	276,479	3,248	0	4,079	4	756	0	0 -79	
8	1493.97	278,684	2,205	0	3,219	4	780	0	0 -238	
9	1493.81	278,357	-327	0	0	4	817	0	0 486	
10	1493.34	277,396	-961	0	0	2	977	0	0 14	
11	1493.73	278,193	797	0	2,007	2	1,126	0	0 -86	
12	1495.33	281,475	3,282	0	4,193	2	865	0	0 -48	
13	1496.37	283,621	2,146	0	2,949	2	724	0	0 -81	
14	1497.21	285,361	1,740	0	2,419	2	609	0	0 -72	
15	1497.26	285,465	104	0	669	2	485	0	0 -82	
16	1497.06	285,050	-415	0	0	2	426	0	0 9	
17	1498.13	287,274	2,224	0	2,258	1	573	0	0 538	
18	1499.81	290,787	3,513	0	4,271	1	714	0	0 -45	
19	1500.93	293,143	2,356	0	3,261	1	771	0	0 -135	
20	1502.09	295,595	2,452	0	2,452	1	704	0	0 703	
21	1502.02	295,447	-148	0	0	1	601	0	0 452	
22	1501.74	294,854	-593	0	0	0	565	0	0 -28	
23	1500.97	293,228	-1,626	0	0	1	408	0	0 -1,219	
24	1500.74	292,743	-485	0	0	1	455	0	0 -31	
25	1500.50	292,237	-506	0	0	1	482	0	0 -25	
26	1500.30	291,817	-420	0	0	1	458	0	0 37	
27	1500.49	292,216	399	0	1,207	1	637	0	0 -172	
28	1500.94	293,164	948	0	1,613	0	764	0	0 99	
29	1500.58	292,406	-758	0	0	0	695	0	0 -63	
30	1500.38	291,985	-421	0	0	0	429	0	0 8	
31	1500.06	291,312	-673	0	0	0	576	0	0 -97	
Total				34,250	0	56,400	60	21,759	0	
									-451	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Rec.	Article 56C	Local	Article 14B	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		62,030						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Removed	2	2	0	0	0	
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07	(7,011 AF of flow through Gorman Creek Imp. Channel)	54,545						
29H	W3	Pyramid Lake		USFS		9	9	0	0	0	
				Pyramid Recreation (T300)	2						
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0						
29J	W4	Castaic Power Plant	25.82	(124 AF pumpback) 2/	7,011	20,208	1,242	300	0	0	
		Elderberry Forebay									
		Forebay Dam	28.12								
30 1/	W5	Castaic Lake		California State Park		21,750	9	0	0	0	
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	9						
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	20,208						
				Castaic Lake WA 18", 24" & 54" (T303)	0						
				Castaic Lake WA Rio Vista T.P. (T304)	1,242						
				MWD-Ventura Co. WPD (T302)	300						
					0						
				Disposition of Natural inflows	0						
				Releases to Castaic Lagoon	0						
				Reach 30 Subtotal:	21,759						
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0						
		Castaic Lagoon Outlet	31.87		186						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
Nov 30	3352.13	72,197												
1	3351.37	71,473	-724	0	0	0	3	0	937	0	0	216	8	
2	3351.37	71,473	0	8	0	1	3	0	1,073	0	0	1,067	8	
3	3348.62	68,884	-2,589	9	0	2	3	0	1,112	0	1	-1,484	8	
4	3347.55	67,890	-994	9	0	2	3	0	942	0	0	-60	8	
5	3346.37	66,804	-1,086	0	10	1	3	0	1,066	0	0	-28	8	
6	3345.33	65,854	-950	0	9	1	3	0	954	0	1	-2	8	
7	3344.46	65,065	-789	0	9	1	4	1	761	0	0	-33	8	
8	3344.89	65,455	390	1,203	0	1	3	0	813	0	0	2	8	
9	3345.22	65,754	299	1,293	0	1	3	0	915	0	1	-76	8	
10	3345.78	66,264	510	1,187	0	1	4	0	645	0	0	-29	8	
11	3346.60	67,015	751	1,466	0	1	3	0	667	0	0	-46	8	
12	3347.36	67,715	700	1,335	0	1	3	0	698	0	0	65	8	
13	3348.34	68,623	908	1,284	0	60	3	0	529	0	1	97	8	
14	3349.07	69,304	681	1,252	0	20	2	0	569	0	0	-20	8	
15	3350.45	70,601	1,297	1,988	0	12	1	0	640	0	0	-62	8	
16	3352.33	72,389	1,788	2,438	0	8	1	0	684	0	0	27	8	
17	3353.25	73,272	883	1,459	0	5	1	0	522	0	1	-57	9	
18	3352.92	72,955	-317	87	0	20	2	0	545	0	0	123	15	
19	3352.41	72,465	-490	275	0	12	0	0	644	0	0	-133	20	
20	3351.85	71,930	-535	491	0	8	3	0	902	0	1	-128	20	
21	3351.65	71,739	-191	355	0	7	1	0	681	0	0	129	20	
22	3351.93	72,006	267	999	0	6	1	0	603	0	0	-134	20	
23	3352.24	72,302	296	921	0	5	0	1	602	0	1	-26	20	
24	3352.19	72,255	-47	574	0	5	0	0	600	0	0	-26	20	
25	3352.19	72,255	0	579	0	5	0	0	601	0	0	17	20	
26	3352.19	72,255	0	576	0	11	0	0	645	0	1	59	20	
27	3351.93	72,006	-249	617	0	7	0	0	772	0	0	-101	20	
28	3351.85	71,930	-76	602	0	6	0	0	676	0	0	-8	16	
29	3351.57	71,663	-267	822	0	2	0	0	1,164	0	1	74	15	
30	3350.70	70,837	-826	982	0	2	0	0	1,697	0	0	-113	13	
31	3349.83	70,016	-821	998	0	3	0	0	1,848	0	0	26	13	
Total				-2,181	23,809	28	217	53	2	25,507	0	9	-664	389

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation
(in acre-feet except as noted)

Capacity: 131,452 ac-ft

December 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Nov 30	1562.88	74,253				
1	1562.88	74,253	0		104	
2	1562.80	74,103	-150		104	
3	1562.75	74,009	-94		104	
4	1562.80	74,103	94		110	
5	1562.88	74,253	150		99	
6	1562.80	74,103	-150		76	
7	1562.88	74,253	150		6	
8	1562.88	74,253	0		7	
9	1562.88	74,253	0		5	
10	1562.80	74,103	-150		0	
11	1562.80	74,103	0		10	
12	1562.88	74,253	150		10	
13	1562.97	74,423	170		85	
14	1562.80	74,103	-320		110	
15	1562.66	73,840	-263		273	
16	1562.61	73,747	-93		324	
17	1562.36	73,279	-468		281	
18	1562.17	72,924	-355		281	
19	1562.01	72,626	-298		281	
20	1561.90	72,421	-205		248	
21	1561.73	72,106	-315		242	
22	1561.65	71,957	-149		258	
23	1561.43	71,550	-407		289	
24	1561.35	71,402	-148		294	
25	1561.15	71,032	-370		273	
26	1561.02	70,793	-239		241	
27	1560.85	70,480	-313		274	
28	1560.69	70,186	-294		274	
29	1560.63	70,076	-110		268	
30	1560.33	69,527	-549		182	
31	1560.27	69,417	-110		166	
Total			-4,836	1,105	5,279	-662

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

December 2012

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Rec.	Article 56C	Transfer	Local	
	No.	Structure	Mile							
17E	40	Edmonston Pumping Plant	293.45		93,103					
	41		298.65	KCWA Tej.-Cas	Stub					
17F		Check No. 41	303.41							
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0					
		Check No. 42	304.99							
19	43	Alamo Powerplant	305.73	(Includes 0 AF generation, 0 AF plant bypass, and 27,256 AF Tehachapi Bypass)	27,256					
			306.71	AVEK 305th Street West (T287)	0					
			308.05	AVEK 294th Street West (T267)	0					
	Check No. 43		309.70							
	44		311.84	LADWP Connection	0					
			313.50	AVEK 245th Street West (T269)	0					
	Check No. 44		314.81							
	45		314.93	AVEK 235th Street West (T270)	0					
			315.57	AVEK 225th Street West (T271)	0					
		Check No. 45	319.74							
20A	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)	1,046					
				Mojave Water Agency Fairmont (T272)	16					
			323.84							
				Reach 19 Total:	1,062					
	47	Check No. 47	326.77							
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	0					
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved					
			Check No. 48	330.82						
20B	49	Check No. 49	335.93							
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	823					
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	4					
			340.92	AVEK WA-Temp (T387)	0					
	Check No. 50		341.51							
	51		342.06	AVEK WA-Temp (T386)	0					
		Check No. 51	342.07							
	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0					
			Check No. 52	343.74						
21	57		346.98	Palmdale WD (T276) Temp.	1,011					
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	37					
			Check No. 53	348.17						
			54	Check No. 54	350.25					
	55	Check No. 55	352.70							
	56	Check No. 56	354.76							
	57		354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0					
			354.97	Palmdale WD (T276)	0					
			354.97	Palmdale WD (T391)	0					
			Check No. 57	356.93						
22A	58		357.60	AVEK 95th Street East (T279)	0					
			357.72	AVEK 96th Street East (T280)	0					
			359.76	AVEK East Side Treatment Plant (T281)	184					

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

December 2012

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries										
	Beginning and Ending					Table A	Rec.	Article 56C	Trans-fer	Local	Purch. Pool A	Article 14B				
	No.	Structure	Mile													
22B	58	Pearblossom Pumping Plant	360.61		26,404	306 4	1,766	389	2							
	59	Check No. 59	366.09													
	60		366.50	AVEK Big Rock Siphon (T368)	0											
		Check No. 60	373.94													
	61	Check No. 61	379.00													
	62	Check No. 62	384.26													
	63		389.20	MWA (T282) MWA (T422)	306 4											
	64	Check No. 63														
	65	Check No. 64	395.10													
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	1,766											
23		Check No. 66	403.41													
		Mojave Siphon	405.58	Las Flores Ranch Exchange	389											
24		Mojave Siphon Powerplant	405.65		23,809	2	1,766	389								
				MWA CS DAM (T288)	0											
			407.65	California State Park												
		Silverwood Lake		Silverwood (T288)	2											
25				Creastline-Lake Arrowhead WA		1,702	2,494	2	1,766	389						
		San Bernardino Intake Tunnel		State Project Water (T289)	0											
26A		Devil Canyon Powerplant	412.73	Non-Project Water (T289)	0	1,702 2,115 1,522 12,148 922 1,702 0 0 0 0	2,494	2	1,766	389						
				MWD-Rialto (T290)	1,702											
				MWD-Rialto (T293)	0											
				MWD-Rialto (T294)	2,115											
				Desert Water Agency Transfer (T293)	1,522											
				Coachella Valley WD (T293)	12,148											
				Coachella Valley WD (T294)	922											
				San Gabriel Valley MWD (T290)	1,702											
				MWD EBX-1 (T290)	0											
				MWD EBX-1 (T291)	0											
EBX	68	East Branch Extension	412.88	San Bernardino Valley MWD (T290)	0											
				San Bernardino Valley MWD (T291)	2,494											
				San Bernardino Valley MWD (T403)	59											
				San Bernardino Valley MWD (T407)	779											
				San Gorgonio Pass WA (T413)	992											
28G	28H	Santa Ana Valley Pipeline	425.46			1,356 2,406	2,494	2	1,766	389						
				Coachella Valley (T295)	1,356											
				Coachella Valley (T296)	0											
				Desert Water Agency (T296)	2,406											
				MWD-SC Box Springs (T295)	0											
28J	69	Lake Perris	440.05	MWD-SC (T296)	0	793 2,205	11	2	1,766	389						
			442.00	MWD-SC (T297)	0											
				MWD-SC 54" & 78" (T299)	0											
				Coachella Valley (T2969)	793											
				Desert Water Agency (T299)	2,205											
				Ca. St. Pk. Lake Perris Rec. (T298)	11											
				MWD Total:	24,025	24,025	0	0	0	0	0	0				

Table 32. Water Quality At Selected SWP Locations

December 2012

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	39	110	121	58	68	70	72	70	70
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.001	0.002	0.002	0.002	0.001	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	0.1	0.2	0.5	0.1	0.2	0.2	0.2	0.2	0.1
Bromide	mg/l	<0.01	0.05	0.34	0.23	0.25	0.29	0.26	0.25	0.35
Calcium	mg/l	8	18	39	15	19	19	21	21	18
Chloride	mg/l as C	1	50	119	54	80	94	78	80	91
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Hardness	mg/l	36.000	127.000	184.000	79.000	101.000	101.000	98.000	98.000	98.000
Iron	mg/l	0	0	0	0	0	0	0	0	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	20.000	21.000	10.000	13.000	13.000	11.000	11.000	13.000
Manganese	mg/l	<0.005	0.044	0.006	0.016	0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	0	0	2	1	1	1	1	1	0
Organic Carbon, Dissolved	mg/l	NR	11.300	4.200	5.000	4.400	3.000	2.433	2.200	2.200
Organic Carbon, Total	mg/l as N	NR	12.00	4.30	5.30	4.40	3.00	2.30	2.20	2.30
Phosphate-Ortho	mg/l as P	<0.01	0.46	0.14	0.06	0.07	0.08	NR	0.06	0.06
Phosphorus-Total	mg/l	<0.01	0.57	0.21	0.10	0.11	0.08	0.07	0.07	0.09
Selenium	mg/l	<0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	0.001	<0.001
Sodium	mg/l	3	49	99	36	55	60	55	57	60
Specific Conductance	µS/cm	85	464	857	348	484	529	485	464	509
Sulfate	mg/l	2	36	110	21	35	37	35	33	29
Total Dissolved Solids	mg/l	54	270	495	201	268	291	269	264	281
Turbidity	NTU	2	17	12	12	7	2	2	3	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	<0.005	<0.005

mg/l milligrams per liter

µS/cm microSiemens per centimeter

NTU - nephelometric turbidity units

µg/l micrograms per liter

NR - Not Reported

Table 33. Water Quality At Selected Delta Stations

December 2012

Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in milliSiemens/cm								Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	6.70	4.94	19,306	19,306	19,742	6.20	11.24	0.89	1.45	2.52	1.84	0.47	0.34	0.52	112
2	6.91	5.43	32,880	26,093	29,336	5.09	9.45	0.49	1.32	2.57	1.92	0.46	0.29	0.49	116
3	5.83	4.62	61,971	38,052	49,233	3.28	3.81	0.36	1.21	1.63	1.93	0.51	0.31	0.52	117
4	5.65	4.40	65,039	44,799	52,421	2.12	1.88	0.23	1.11	1.22	1.91	0.52	0.42	0.51	116
5	5.86	4.37	64,863	48,812	53,641	1.60	1.08	0.16	1.03	1.03	1.88	0.52	0.55	0.51	119
6	5.79	4.17	57,919	50,330	51,370	1.28	0.66	0.14	0.98	0.85	1.83	0.53	0.51	0.53	118
7	5.93	4.05	57,002	51,283	50,864	1.05	0.48	0.17	0.93	0.72	1.78	0.55	0.53	0.56	127
8	6.03	4.05	55,315	51,787	50,131	0.92	0.42	0.18	0.88	0.61	1.72	0.53	0.59	0.55	128
9	6.38	4.17	52,882	51,909	48,238	0.81	0.39	0.18	0.82	0.53	1.64	0.57	0.64	0.56	129
10	6.53	4.19	48,927	51,610	45,002	0.70	0.37	0.19	0.75	0.46	1.55	0.56	0.68	0.58	130
11	6.96	4.52	36,007	50,192	38,929	0.62	0.39	0.19	0.67	0.44	1.45	0.52	0.71	0.58	135
12	7.28	4.83	29,173	48,440	33,578	0.55	0.46	0.19	0.53	0.45	1.32	0.48	0.73	0.54	135
13	7.11	4.69	25,193	46,652	29,655	0.52	0.41	0.20	0.41	0.42	1.17	0.45	0.76	0.53	135
14	7.10	4.73	21,763	44,874	26,708	0.48	0.44	0.21	0.27	0.40	0.99	0.45	0.78	0.52	137
15	6.58	4.42	19,428	43,178	24,750	0.46	0.40	0.22	0.22	0.38	0.84	0.42	0.80	0.52	133
16	6.28	4.37	17,615	41,580	23,166	0.43	0.37	0.23	0.20	0.37	0.68	0.41	0.81	0.50	129
17	6.07	4.43	15,290	40,034	21,200	0.42	0.42	0.23	0.19	0.37	0.59	0.39	0.84	0.47	136
18	5.75	4.19	13,865	38,580	20,045	0.41	0.37	0.23	0.19	0.36	0.53	0.38	0.80	0.48	138
19	5.50	3.70	23,470	37,785	21,424	0.41	0.30	0.23	0.20	0.35	0.48	0.44	0.72	0.46	148
20	5.70	3.89	29,077	37,349	25,265	0.40	0.30	0.22	0.20	0.33	0.44	0.56	0.74	0.60	172
21	6.44	4.45	29,468	36,974	26,094	0.38	0.46	0.21	0.21	0.33	0.41	0.44	0.76	0.63	162
22	6.81	4.65	31,144	36,709	26,655	0.37	0.76	0.21	0.21	0.32	0.39	0.52	0.50	0.67	162
23	6.84	4.80	40,673	36,881	32,093	0.38	0.62	0.21	0.21	0.31	0.38	0.62	0.28	0.72	162
24	6.60	4.64	59,057	37,805	46,884	0.36	0.25	0.21	0.21	0.28	0.37	0.59	0.26	0.78	162
25	6.59	4.60	67,009	38,973	52,703	0.33	0.23	0.19	0.21	0.27	0.35	0.64	0.38	0.80	162
26	6.94	5.00	86,924	40,818	70,499	0.31	0.21	0.16	0.21	0.25	0.34	0.66	0.27	0.78	106
27	6.46	4.52	106,260	43,242	88,745	0.28	0.19	0.16	0.21	0.22	0.33	0.63	0.42	0.71	104
28	6.36	4.46	95,168	45,096	82,776	0.26	0.17	0.15	0.20	0.22	0.31	0.49	0.52	0.58	80
29	6.41	4.50	80,868	46,330	70,755	0.24	0.15	0.16	0.20	0.20	0.30	0.48	0.59	0.53	80
30	6.24	4.50	66,670	47,008	57,406	0.23	0.14	0.16	0.19	0.20	0.29	0.46	0.65	0.51	80
31	5.86	4.26	57,654	47,351	50,231	0.22	0.14	0.15	0.19	0.19	0.27	0.45	0.71	0.49	75

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

December 2012

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 20, 2012	Metolachlor	0.70
California Aqueduct At Banks Pumping Plant	September 19, 2012	2,4-D	0.10
O'Neill Forebay Outlet Check 13	September 18, 2012	2,4-D	0.20
Delta Mendota Canal At McCabe Road	September 18, 2012	2,4-D	0.20
California Aqueduct Near Kettleman City (Check 21)	June 19, 2012	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	March 21, 2012	Diuron	1.70
California Aqueduct at Tehachapi Afterbay (Check 41)	June 20, 2012	Simazine	0.02
California Aqueduct At Devil Canyon 2nd Afterbay	June 20, 2012	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	December 2012	
	Generation	Load			Total Load	SWP Load			
	1	1,784,882	385	17,842	29,777	3,623,392	3,623,392	43,735	828
2	1,591,051	396	11,762	24,216	3,737,808	3,737,808	53,199	884	
3	3,229,765	0	11,645	24,644	3,633,240	3,633,240	42,308	947	
4	4,967,446	11	11,717	25,907	3,758,272	3,758,272	41,798	956	
5	3,740,770	110	12,894	27,794	3,651,184	3,651,184	20,118	897	
6	3,709,431	0	11,818	25,066	3,738,720	3,738,720	15,652	994	
7	2,035,550	0	11,413	25,011	3,748,528	3,748,528	59,842	941	
8	1,911,096	0	9,615	23,525	1,492,360	1,492,360	76,584	937	
9	1,942,006	0	9,664	25,445	1,825,976	1,825,976	68,246	936	
10	3,891,195	0	8,243	22,888	1,798,048	1,798,048	35,875	950	
11	2,368,696	0	6,487	18,478	3,652,576	3,652,576	45,002	957	
12	2,368,542	11	8,177	23,113	3,665,896	3,665,896	30,521	993	
13	2,353,186	0	8,352	22,300	3,668,528	3,668,528	47,732	971	
14	2,686,651	0	7,079	19,538	3,704,736	3,704,736	40,753	972	
15	2,677,037	22	7,482	21,463	3,691,440	3,691,440	101,891	913	
16	3,604,986	110	8,166	23,456	3,986,624	3,986,624	121,510	955	
17	2,809,708	286	9,024	23,770	3,829,152	3,829,152	94,667	944	
18	3,135,605	0	8,149	22,985	3,888,736	3,888,736	56,477	941	
19	3,402,234	0	7,199	21,736	1,286,384	1,286,384	69,863	941	
20	3,421,968	0	8,719	22,523	888,904	888,904	106,137	944	
21	3,427,710	583	7,009	21,106	892,776	892,776	151,050	953	
22	2,049,806	396	6,985	19,024	462,360	462,360	133,168	946	
23	904,816	594	8,644	23,062	415,496	415,496	155,233	938	
24	3,448,335	0	7,708	21,914	934,728	934,728	145,194	949	
25	3,426,610	154	7,954	22,740	418,176	418,176	139,591	928	
26	3,456,024	44	5,323	15,702	1,253,576	1,253,576	132,580	925	
27	3,460,688	0	5,333	13,952	1,204,528	1,204,528	110,585	938	
28	3,445,706	0	5,362	14,496	1,225,104	1,225,104	138,093	955	
29	1,658,393	0	5,377	14,513	1,224,216	1,224,216	177,507	945	
30	1,424,984	0	6,595	17,140	1,224,248	1,224,248	178,231	945	
31	3,439,667	0	5,376	15,956	917,816	917,816	179,564	946	
Total	87,774,544	3,102	267,111	673,238	73,443,528	73,443,528	2,812,705	29,165	

Table 36. San Luis Field Division Energy Data

(in kWh)

December 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	929,518	785,518	0	0	3,483,744	1,809,744
2	819,445	675,445	0	0	3,483,535	1,251,535
3	806,080	662,080	0	0	4,308,480	2,076,480
4	813,569	669,569	0	0	4,646,367	2,693,367
5	800,345	656,345	0	0	4,415,983	2,369,983
6	587,633	443,633	0	0	4,548,258	2,316,258
7	828,830	684,830	0	0	3,829,045	1,597,045
8	856,170	712,170	0	0	2,622,631	654,631
9	896,168	752,168	0	0	1,181,092	5,092
10	628,236	484,236	0	0	1,180,784	4,784
11	396,527	252,527	0	0	3,638,536	2,462,536
12	587,612	587,612	0	0	4,231,920	4,231,920
13	714,161	570,161	0	0	4,645,751	2,725,751
14	697,950	553,950	0	0	4,644,288	2,724,288
15	775,510	631,510	0	0	4,641,417	2,721,417
16	805,475	661,475	0	0	4,637,534	2,405,534
17	399,006	255,006	0	0	4,635,796	2,403,796
18	450,770	306,770	0	0	4,635,499	2,403,499
19	673,456	529,456	0	0	2,665,179	433,179
20	279,472	135,472	0	0	1,172,424	-3,576
21	331,290	187,290	0	0	1,171,863	1,171,863
22	305,419	161,419	0	0	19,987	19,987
23	326,678	182,678	0	0	20,031	20,031
24	229,122	85,122	0	0	19,536	19,536
25	167,108	23,108	0	0	1,191,608	15,608
26	130,534	-13,466	0	0	1,194,754	18,754
27	192,640	48,640	0	0	1,194,655	1,194,655
28	222,934	78,934	0	0	1,197,559	1,197,559
29	160,164	16,164	0	0	2,341,152	1,165,152
30	216,448	72,448	0	0	2,340,316	1,164,316
31	180,473	36,473	0	0	1,487,739	311,739
Total	16,208,743	11,888,743	0	0	85,427,463	43,586,463

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

December 2012

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	8,050	20,619	23,466	21,703	23,633	1,210,275	1,302,561	2,928,453	10,736,064
2	5,208	13,022	26,028	25,097	25,914	1,186,618	1,273,478	2,845,249	10,314,027
3	4,688	11,398	23,328	21,393	23,922	1,157,764	1,245,955	2,792,218	10,431,693
4	5,836	14,238	26,768	24,930	27,019	1,183,196	1,276,853	2,856,150	10,427,400
5	6,050	15,084	37,005	34,496	37,239	1,190,759	1,309,975	2,921,303	10,690,947
6	6,931	17,351	24,780	24,044	25,486	501,520	460,107	1,023,616	3,949,965
7	8,117	20,616	31,852	29,273	32,532	1,039,451	1,178,564	2,648,756	9,679,230
8	9,121	24,324	23,317	22,011	23,777	1,306,505	1,419,271	3,194,202	11,817,684
9	3,966	9,619	32,404	29,812	33,765	1,312,024	1,419,161	3,180,980	11,805,561
10	3,658	8,957	32,508	30,380	32,482	805,781	880,119	1,974,951	7,241,886
11	4,965	12,132	31,531	30,484	32,881	660,733	702,526	1,555,829	5,816,070
12	5,242	13,199	31,849	28,956	31,827	658,003	727,243	1,591,975	5,609,088
13	4,661	10,890	30,713	28,973	31,368	821,587	835,920	1,906,641	6,981,957
14	5,028	12,223	22,391	20,987	22,480	781,774	815,999	1,781,604	6,597,747
15	3,725	8,465	24,136	21,795	24,352	1,283,639	1,400,184	3,189,230	11,895,066
16	5,014	11,852	26,164	25,631	27,673	1,291,118	1,410,503	3,204,476	11,897,280
17	3,890	9,218	22,825	21,475	22,782	648,895	676,728	1,504,294	5,576,526
18	3,690	9,292	25,840	24,016	26,764	872,411	937,658	2,072,015	7,602,984
19	6,228	15,113	26,805	26,313	27,335	1,090,789	1,178,458	2,649,493	9,863,586
20	5,218	12,896	16,237	14,881	16,499	396,659	412,303	905,322	3,117,447
21	5,159	13,045	25,164	23,276	25,648	380,183	339,601	724,031	2,753,919
22	8,108	21,237	29,794	27,605	29,946	554,999	542,565	1,234,728	4,429,809
23	7,050	17,912	26,014	25,533	26,626	495,148	526,579	1,189,782	4,517,694
24	1,800	3,699	28,395	26,046	28,652	353,583	350,836	783,123	2,906,064
25	3,930	8,954	18,183	17,106	19,381	317,405	351,635	749,474	2,832,408
26	2,260	5,447	19,261	18,626	19,514	316,978	345,393	784,883	2,989,413
27	2,347	4,790	26,174	24,747	26,429	327,415	338,936	752,037	2,842,776
28	5,170	12,574	28,336	25,804	29,286	325,607	352,755	795,630	2,994,705
29	7,257	19,028	22,630	21,136	23,580	362,684	396,142	890,615	3,248,478
30	6,068	14,661	14,917	14,187	14,871	398,272	439,502	1,016,048	3,732,534
31	5,938	14,592	27,339	25,869	28,300	359,213	378,625	830,511	3,150,603
Total	164,373	406,445	806,155	756,585	821,965	23,590,987	25,226,138	56,477,619	208,450,611

Table 38. Southern Field Division Energy Data

(in kWh)

December 2012

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	1,234,790	1,805,536	3,864,000	0	13,874	1,085,548	0	39,684	49,378	5,355
2	1,265,716	1,805,992	3,864,000	0	13,829	1,261,958	0	40,332	49,384	5,350
3	1,226,140	1,806,575	3,864,000	0	14,486	1,299,204	0	39,661	49,386	5,366
4	1,248,125	1,804,048	3,864,000	0	14,673	1,088,773	0	39,233	49,357	5,378
5	1,275,173	1,805,374	3,864,000	0	38,993	1,257,736	0	38,674	49,411	5,393
6	295,548	1,281,825	2,160,000	0	14,282	1,115,939	0	30,694	42,879	5,479
7	645,406	1,604,386	2,976,000	0	740,644	885,776	0	25,336	35,820	5,513
8	797,376	1,806,859	2,976,000	0	1,178,369	951,624	92,322	35,102	49,383	5,483
9	893,393	1,805,892	2,976,000	0	1,136,551	1,094,220	103,097	30,871	43,230	5,470
10	437,403	999,902	1,344,000	0	1,017,623	747,385	90,198	34,996	45,079	5,509
11	307,976	788,719	1,344,000	0	956,937	771,106	120,497	40,244	49,863	4,687
12	329,314	840,073	0	0	868,979	825,588	104,946	38,526	49,881	5,442
13	456,651	908,636	1,344,000	0	916,312	609,937	95,481	37,476	49,793	5,427
14	419,204	833,090	1,344,000	0	845,835	657,284	94,232	37,549	49,762	5,405
15	758,455	1,058,775	1,344,000	0	1,285,573	744,372	154,187	41,356	49,735	5,414
16	741,680	1,357,727	1,344,000	0	1,583,304	805,144	178,550	42,300	49,759	5,404
17	430,460	1,358,567	3,072,000	0	833,914	596,819	105,510	38,118	49,812	5,414
18	548,003	1,805,568	3,072,000	0	448,351	652,820	4,568	29,949	41,300	5,414
19	964,559	1,806,332	3,072,000	0	142,679	837,554	17,443	35,273	49,331	5,429
20	357,752	452,963	432,000	0	241,671	1,175,137	37,890	35,263	49,378	5,440
21	226,703	451,389	432,000	0	243,161	871,942	22,648	35,194	49,397	5,449
22	242,453	376,137	432,000	0	642,331	755,258	68,558	35,180	49,340	5,429
23	243,482	381,556	432,000	0	647,455	751,252	67,865	35,311	49,353	5,415
24	175,812	344,858	432,000	0	424,551	752,638	35,056	35,374	49,398	5,424
25	165,316	305,818	432,000	0	438,919	750,168	36,851	35,167	49,339	5,415
26	148,338	336,736	432,000	0	417,753	808,970	36,755	35,182	49,393	5,447
27	119,858	271,058	432,000	0	456,938	988,160	39,607	35,171	49,372	5,466
28	120,729	305,173	432,000	0	495,150	845,971	38,360	35,294	49,365	4,906
29	121,670	305,365	432,000	0	525,018	1,415,218	52,008	29,052	40,936	4,675
30	134,879	263,399	432,000	0	667,960	2,225,599	63,776	34,990	49,204	4,690
31	122,239	263,253	432,000	0	671,767	2,315,840	76,874	35,048	49,236	4,674
Total	16,454,600	31,341,581	52,872,000	0	17,937,881	30,944,941	1,737,279	1,111,600	1,486,256	164,764

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.